

Release notes for ENDF/B Development d-001_H_003
evaluation

ENDF
B-VII.dev

December 2, 2016

- checkr Warnings:

1. A previous error halted parsing of the current section
MAT= 131, MF= 1, MT=451 (1): Parsing stopped

```
ERROR(S) FOUND IN MAT= 131, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER 73 TO 80
```

- checkr Errors:

1. A variable is outside the allowed ENDF range
MAT= 131, MF= 1, MT=451 (0): Variable range

```
ERROR(S) FOUND IN MAT= 131, MF= 1, MT=451
MOD = 2 OUT OF RANGE 0 - 1 RECORD NUMBER 73
```

2. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 3, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 131, MF= 3, MT= 2
SECTION 3/ 2 NOT IN DIRECTORY RECORD NUMBER 82
```

3. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 3, MT= 50 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 131, MF= 3, MT= 50
SECTION 3/ 50 NOT IN DIRECTORY RECORD NUMBER 87
```

4. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 3, MT= 51 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 131, MF= 3, MT= 51
SECTION 3/ 51 NOT IN DIRECTORY RECORD NUMBER 145
```

5. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 6, MT= 2 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 131, MF= 6, MT= 2
SECTION 6/ 2 NOT IN DIRECTORY RECORD NUMBER 162
```

6. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 6, MT= 50 (0): Directory (b)

```
ERROR(S) FOUND IN MAT= 131, MF= 6, MT= 50
SECTION 6/ 50 NOT IN DIRECTORY RECORD NUMBER 594
```

7. Missing a section in directory so your directory is messed up. This error will break everything else
MAT= 131, MF= 6, MT= 51 (0): Directory (b)

• fizcon Errors:

1. The cross section and an outgoing distribution don't span the same energy region.
MAT= 131, MF= 3, MT= 2 (1): Diff limits (b)

ERROR(S) FOUND IN MAT= 131, MF= 3, MT= 2
THE MAXIMUM INCIDENT ENERGY OF 1.00000E+07 (EV)
SHOULD BE GREATER THAN OR EQUAL TO 3.00000E+07

2. The cross section and an outgoing distribution don't span the same energy region.
MAT= 131, MF= 3, MT= 51 (1): Diff limits (b)

ERROR(S) FOUND IN MAT= 131, MF= 3, MT= 51
THE MAXIMUM INCIDENT ENERGY OF 1.00000E+07 (EV)
SHOULD BE GREATER THAN OR EQUAL TO 3.00000E+07

• fudge-4.0 Errors:

1. Discrete levels are out of order
particles / He4 (Error # 0): Levels out of order

WARNING: Discrete level 1 is out of order

2. There is a gap in the cross section
reaction label 0: H2 + H3 / Cross section: (Error # 0): Gap in xsect.

WARNING: Gap in cross section data from 1.e7 eV to 20. MeV

3. Calculated and tabulated Q values disagree.
reaction label 1: n + He4 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 17107791.89909935 eV vs 1.75893e7 eV!

4. There is a gap in the cross section
reaction label 2: n + (He4_e1 ->H1 + H3) / Cross section: (Error # 0): Gap in xsect.

WARNING: Gap in cross section data from 1.e7 eV to 20. MeV

5. Calculated and tabulated Q values disagree.
reaction label 2: n + (He4_e1 ->H1 + H3) (Error # 1): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 17107791.89909935 eV vs -2.2246 eV!